Docket No.: <u>215177.00101</u>

Customer No. 27160

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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SEP 1 2 2002

In re Application of

James J. HICKMAN

Serial No. 09/575,377

Filed: May 22, 2000

Group Art Unit: 1631

Examiner: M. P. Allen

For: HIGH THROUGHPUT FUNCTIONAL GENOMICS

<u>UNDER 37 C.F.R. §1.97(c)</u>

Hon. Assistant Commissioner for Patents Washington, D.C. 20231

Sir:

Pursuant to 37 C.F.R. §§ 1.56 and 1.97(c), applicant brings to the attention of the Examiner the documents listed on the attached PTO 1449.

This Information Disclosure Statement is being filed more than three months after the U.S. Filing date AND after the mailing date of the first Office Action on the merits but, to the undersigned's knowledge, before the mailing date of either a Final action, or a Notice of Allowance. Copies of the listed documents are attached. Also attached is a copy of the International Search Report.

09/12/2002 TSUGGS 00/Appflicant respectfully requests that the Examiner consider the listed documents
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and indicate that they were considered by making appropriate notations on the attached form, and that the documents be made of record and appear in the "References Cited" on any patent issued therefrom.

Docket No.: <u>215177.00101</u>

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<u>PATENT</u> Serial No. 09/575,377

This submission does not represent that a search has been made or that no better art exists and does not constitute an admission that each or all of the listed documents are material or constitute "prior art." If the Examiner applies any of the documents as prior art against any claims in the application and applicant determines that the cited documents do not constitute "prior art" under United States law, applicant reserves the right to present to the office the relevant facts and law regarding the appropriate status of such documents. Applicant further reserves the right to take appropriate action to establish the patentability of the disclosed invention over the listed documents, should one or more of the documents be applied against the claims of the present application.

Under the provisions of 37 C.F.R. §1.97(c), this Information Disclosure Statement is accompanied by a fee of \$180.00 as specified by Section 1.17(p). If there is any additional fee due in connection with the filing of this Statement, please charge the fee to our Deposit Account No. 50-1710.

Respectfully submitted,

Girberto M. Villacorta, Ph.D.

Registration No. 34,038

Patent Administrator KATTEN MUCHIN ZAVIS ROSENMAN 525 West Monroe Street, Suite 1600 Chicago, Illinois 60661-3963 Fax: (312) 906-1021

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Date: September 6, 2002

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Deep by Min. 59 TECH CENTER 1600/2900 FORM PTO 1449 (modified) Atty Docket No.: Application No. (old: 121278.101) New: 215177.00101 09/575,377 U.S. DEPARTMENT OF COMMERCE Applicant PATENT AND TRADEMARK OFFICE James J. Hickman LIST OF REFERENCES CITED BY Filing Date Group APPLICANT(S) 1623- /65/ May 22, 2000 (Use several sheets if necessary) U.S. Patent Documents *EXAMINER DOCUMENT NAME CLASS SUB FILING DATE DATE INITIAL NUMBER CLASS IF APPROPRIATE mox 5,648,926 Douglas, et al. Α 5,223,117 В Wrighton, et al. Ligler, F.S., et al. 5,077,210 1991 CForeign Patent Documents mor WO 98/54294 | 12/03/98 | PCT D EP 0823483A1 02/11/98 European Е 0 689 051 A2 06/09/95 European Other Document(s) (Including Author, Title, Date, Pertinent Pages, etc.) Ambros-Ingerson, J. et al., "Stimulation of Paleocortex Performs Hierarchical Clustering"; Science, 247; 1990:1344-48 Granger, R. et al., An Introduction to Neural and Electronic Networks; Ed's Zornetzer, S.F., Davis, J.L., and Lau, C., H meA Academic Press, Inc., San Diego; 1991:25-42. Adleman, L., "Molecular Computation of Solutions to Combinatorial Problems"; Science, Vol. 266, 1994. I Palsson, "Bioinformation and the creation of biological pathways or genetic circuits using silicon based models"; 1997. J Gross, G.W., et al., "The use of neuronal networks on multielectrode arrays as biosensors"; Biosens. Bioelectron., 10, K 1995:553-567; 1. Stenger, D.A., et al., Related Articles - "Microlithographic determination of axonal/dendritic polarity in cultured l. hippocampal neurons"; J. Neurosci. Methods; Aug. 1; 82(2)1998:167-73. LeMasson, G., et al., "Activity-dependent regulation of conductances in model neurons"; Science, 259, 1993:1915-17. M Marder, E., et al., "Theory in Motion"; Curr. Opin. Neurobiol.; 5, 1995:832-40. N Schizas, C.N., "Learning systems in biosignal analysis"; Biosystems; 41, 1997:105-25. 0 Hickman, J.J., et al., "Toward orthogonal self-assembly of redox active molecules on Pt and Au: Selective reaction of P disulfide with Au and isonitrile with Pt"; Langmuir; 8; 1992:357. Schaffner, A., et al., "Investigation of the factors necessary for growth of hippocampal neurons in a defined system"; Q J. Neurosci. Methods; 62; 1995:111-119. Riley, M., Functions of gene products of Escherichia coli; Microbiol. Rev.; 57; 1993:862-952 R full decument Freshney, I.L. Culture of Animal Cells: A Manual of Basic Techniques, "4" Ed., Wiley, John & Sons, March 2000. Fromherz, P., et al., "A neuron-silicon junction: A Retzius cell of the leech on an insulated-gate filed-effect transistor"; Science; 252; 1991:1290-93. Jung, D.R., et al., "Cell-based sensor microelectrode array characterized by imaging x-ray photoelectron spectroscopy. U scanning electron miscroscopy, impedance measurements, and extracellular recordings"; J. Vac. Sci. Technol. A.: 16(3); May/June, 1998;1183-88. Becerril, B., et al., "Toxins and genes isolated from scorpions of the genus Tityus"; Toxicon, 35, 1997:821-35. V W Brazil, O.V., et al., "Toxins as tools in the study of sodium channel distribution in the muscle fibre membrane"; Toxicon, 31; 1993:1085-98. Cantiello, H.F., "Role of the actin cytoskeleton on epithelial Na channel regulation", Kidney Int.; 48, 1995:970-84. Х Cassola, A.C., et al., "Use of neurotoxins to study Ca2" channel functions"; Braz. J. Med. Biol. Res., 29, 1996:1759-63. Y Catterall, W.A., et al., "Molecular properties of the sodium channel: a receptor for multiple neurotoxins"; Bull. Soc. Pathol. Exot., 85 (5 Pt 2); 1992:481-85. Childers, S.R., et al., "Role of cyclic AMP in the actions of the cannabinoid receptors"; Biochem. Pharmacol., 52, AΑ 1996:819-27 AB Cowan, F.M., et al., "Hypothesis for synergistic toxicity of organophosphorus poisoning-induced cholinergic crises and anaphylactoid reactions"; U. Appl. Toxicol., 16, 1996:25-33. Dryer, S.E., "Na'-activated K' channels: a new family of large conductance ion channels", Trends Neurosci., 17. AC 1994:155-60. Faden, A.I., "Neurotoxic versus neuroprotective actions of endogenous opioid peptides: implications for treatment of ΑD CNS injury"; Nida Res. Monogr., 163, 1996:318-30. Fields, T.A., et al., "Signalling functions and biochemical properties of pertussis toxin-resistant G-proteins", Biochem. ΑF J., 321 (Pt3), 1977 Feb 1:561-71 Fozzard, H.A., et al., "The guanidinium toxin binding site on the sodium channel", Jpn. Heart J., 37, 1996:683-92. ΑF Harvey, A.L., "Presynaptic effects of toxins"; Int. Rev. Neurobiol., 32, 1990:201-39. Hille, B., "Modulation of ion-channel function by G-protein-coupled receptors"; Trends Neurosci., 17, 1994:923-42. Holstege, C.P., et al., "Chemical warfare. Nerve agent poisoning"; Crit. Care Clin., 13, 1997;923-42.

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^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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